

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/768,180	02/02/2004	Tsuyoshi Fujihara	040039	3663	
23850	7590 05/05/2006	05/05/2006		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			MORAN, MARJORIE A		
1725 K STREI SUITE 1000	ET, NW		ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20006		1631		

DATE MAILED: 05/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/768,180	FUJIHARA ET AL.				
		Examiner	Art Unit				
		Marjorie A. Moran	1631				
Period fe	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SiX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	•						
1)	Responsive to communication(s) filed on	•					
2a)□	· · · · · · · · · · · · · · · · · · ·	action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) 又	Claim(s) 1-20 is/are pending in the application:						
٠,۵	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[]	5) Claim(s)is/are allowed.						
•	6) Claim(s) is/are rejected.						
7)	<u> </u>						
8)🖂	Claim(s) 1-20 are subject to restriction and/or	election requirement.	·				
Applicat	ion Papers	•					
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority	under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
	·	•	ed III tills National Stage				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	nt(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date Other:							

Election/Restrictions

Page 2

This application contains claims directed to the following patentably distinct species:

A) a polymer which is (1) a biopolymer or (2) a synthetic polymer. If species (A.1) is elected, then applicant must further elect a single biopolymer from those recited in claim 2; if species (A.2) is elected, then applicant must further elect a single synthetic polymer from those recited in claim 3;

B) a modifying functional group which is (1) positive hole-transporting or (2) electron-transporting. If species (B.1) is elected, then applicant must further elect a single functional group from those recited in claim 4. If species (B.2) is elected, then applicant must further elect a single electron-transporting functional group from thos recited in claim 5.

C) a functional element which is (1) a circuit, (2) a resistor, (3) a diode, (4) a capacitor, or (5) a transistor.

The species of Group (A) are independent or distinct because biopolymers have different structural and biochemical characteristics than synthetic polymers, and would not be expected to have the same or similar properties in methods of use. In addition, nucleic acids, proteins and saccharides are different biochemical structures with distinct and different properties. DNA and RNA are defined in the art, as evidenced by their names, to be different biochemical entities, with distinct properties. Any composite, or combination of different structures (e.g. a peptide DNA) would be

Art Unit: 1631

expected to be a structure different from an individual structure, with properties different from those of each individual compound.

The species of Group B are independent or distinct because functional groups which form hole-transporters are necessarily different in structure and function than functional groups which from electron-transporters.

The species of Group C are independent because each has a different function and is therefore a different physical entity. While all comprise "wires", the nature and arrangement of the wire is necessarily different in order for each element/species to effect the recited function.

The fact that all species recited have different structures and/or functions supports the burden of search and examination as search for any single structure/entity is different from a search from any other structure/entity.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species from EACH of groups A, B, and C, above, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Application/Control Number: 10/768,180

Art Unit: 1631

Page 4

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marjorie A. Moran whose telephone number is (571) 272-0720. The examiner can normally be reached on Mon,Wed: 7-1:30; Tue,Thur: 7:30-6; Fri 7-3:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on (571)272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MARJORIE A. MÓRAN PRIMARY EXAMINER Mariorie A. Moran

Mayoris a Soron 513/03